

January 21, 1958

PN-528

CACHING OUT BOARD REPORT

Attention: Howie

For your information we are enclosing pictures of our preliminary tests conducted upon the waterproof closure in our Work Task RD-111.

We fabricated the closure on a cylindrical bag around a metal tube for ease in building. A valve on the metal tube introduced internal air as desired. For a test tank we simply laid rubberized fabric into a long wooden crate, as you can see in GTR Photo 14974-1. In this picture the closure is above water and partly dry. In 14974-2 the tube is inflated to 8.5 PSIG and held under water. In 14974-3 the inflation has been increased to 15 PSIG with no leakage noted. 14974-4 is a close-up of gage, valving and closing end of waterproof closure. 14974-5, 14974-6 and 14974-7 are views of closure being unfastened.

If you are concerned about the apparent stiffness of the metal insert in 14974-6 you can be sure we are too! For several reasons our spring steel strips are long overdue in shipment, mostly because of paperwork. In a container complete with closure now available for test, we are substituting a brass strip. We are endeavoring to run a few days leak test on this container starting tomorrow.

Admittedly the sealing prospect of the closure appears excellent, we are assured of sealing against 15 PSIG. However, even upon receipt of the spring steel, we anticipate considerable work must be done to make closing the seal possible by one man working under adverse conditions.

More towards this objective will follow in our next formal report.

Very truly yours,

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Central Development Department

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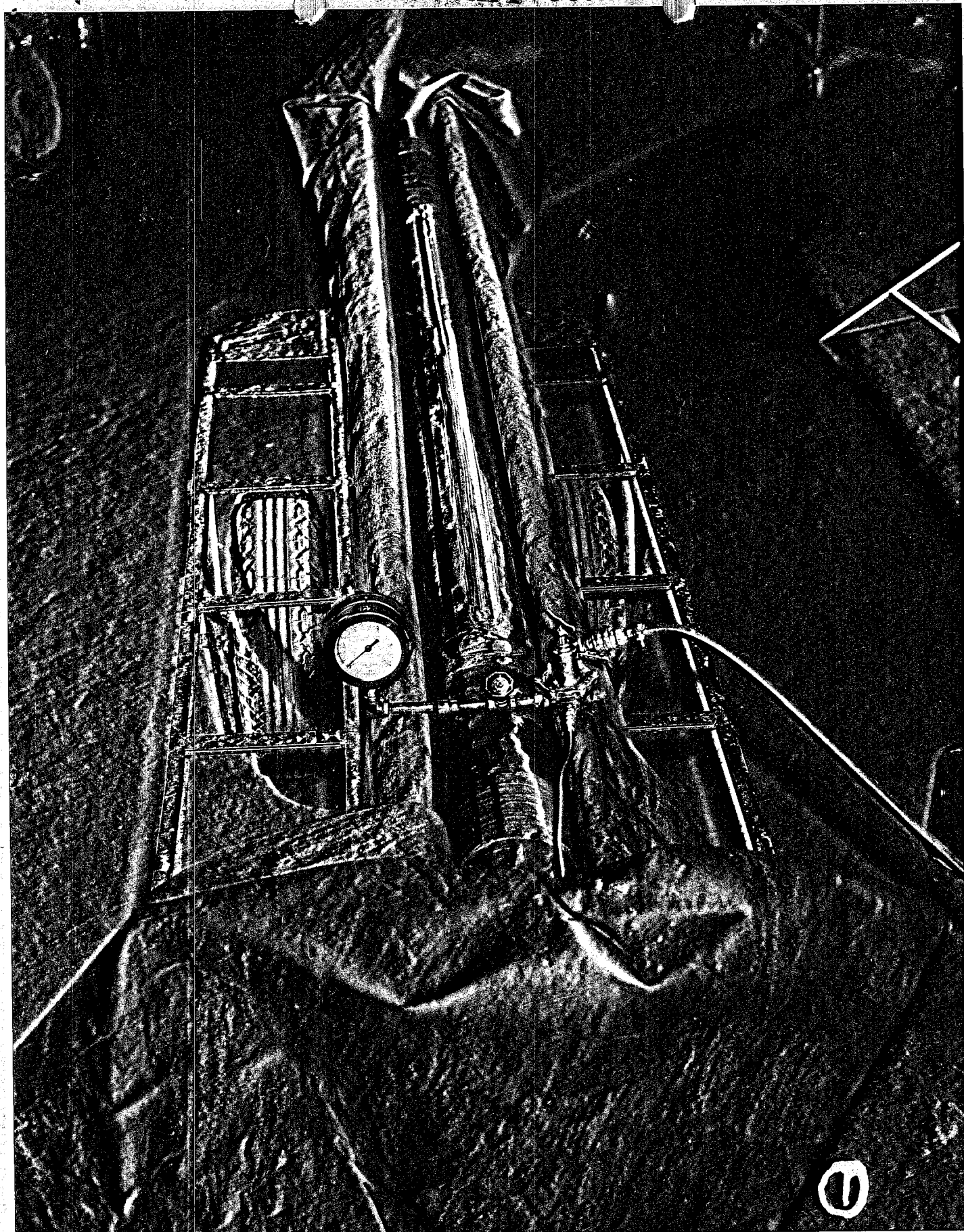
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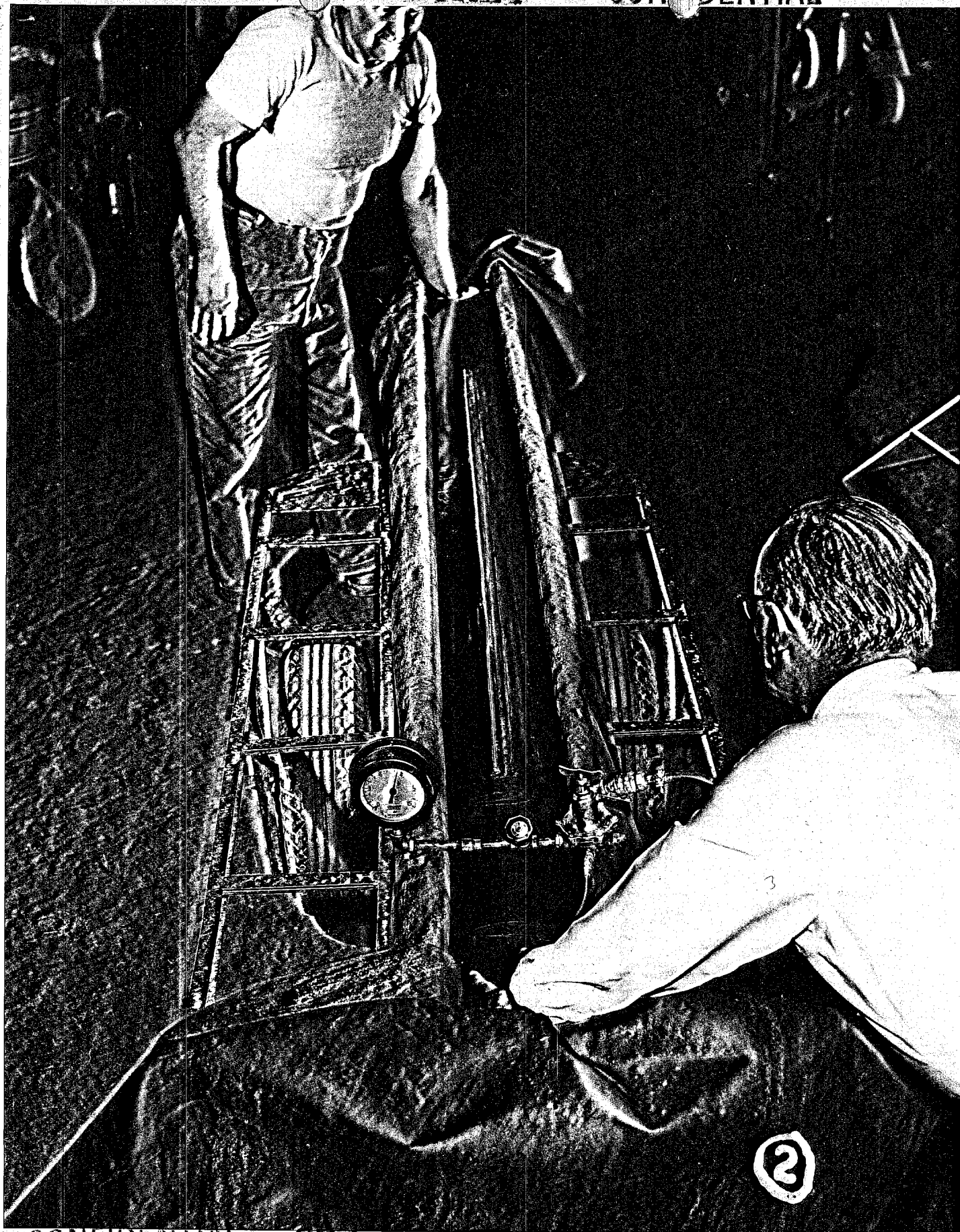
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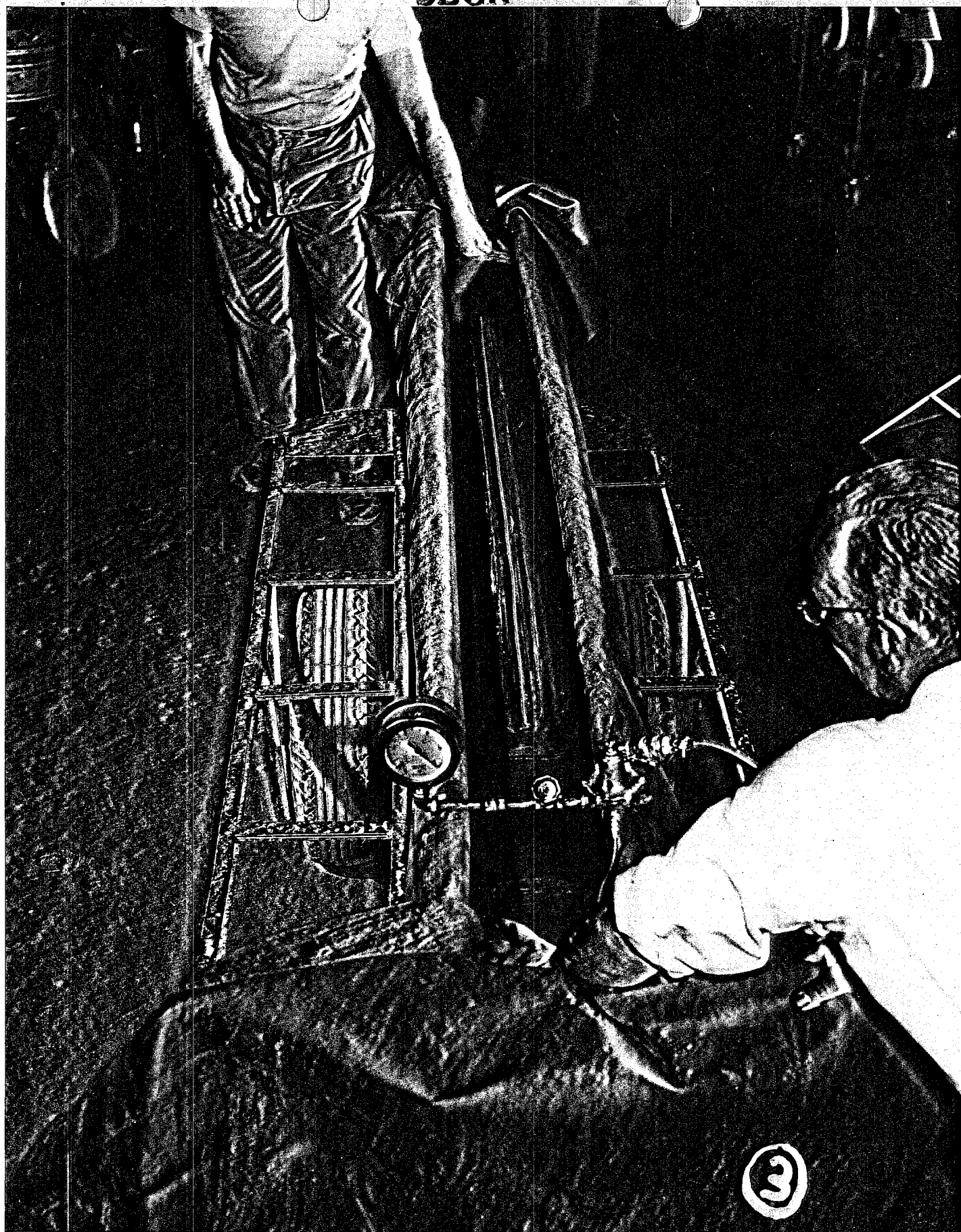
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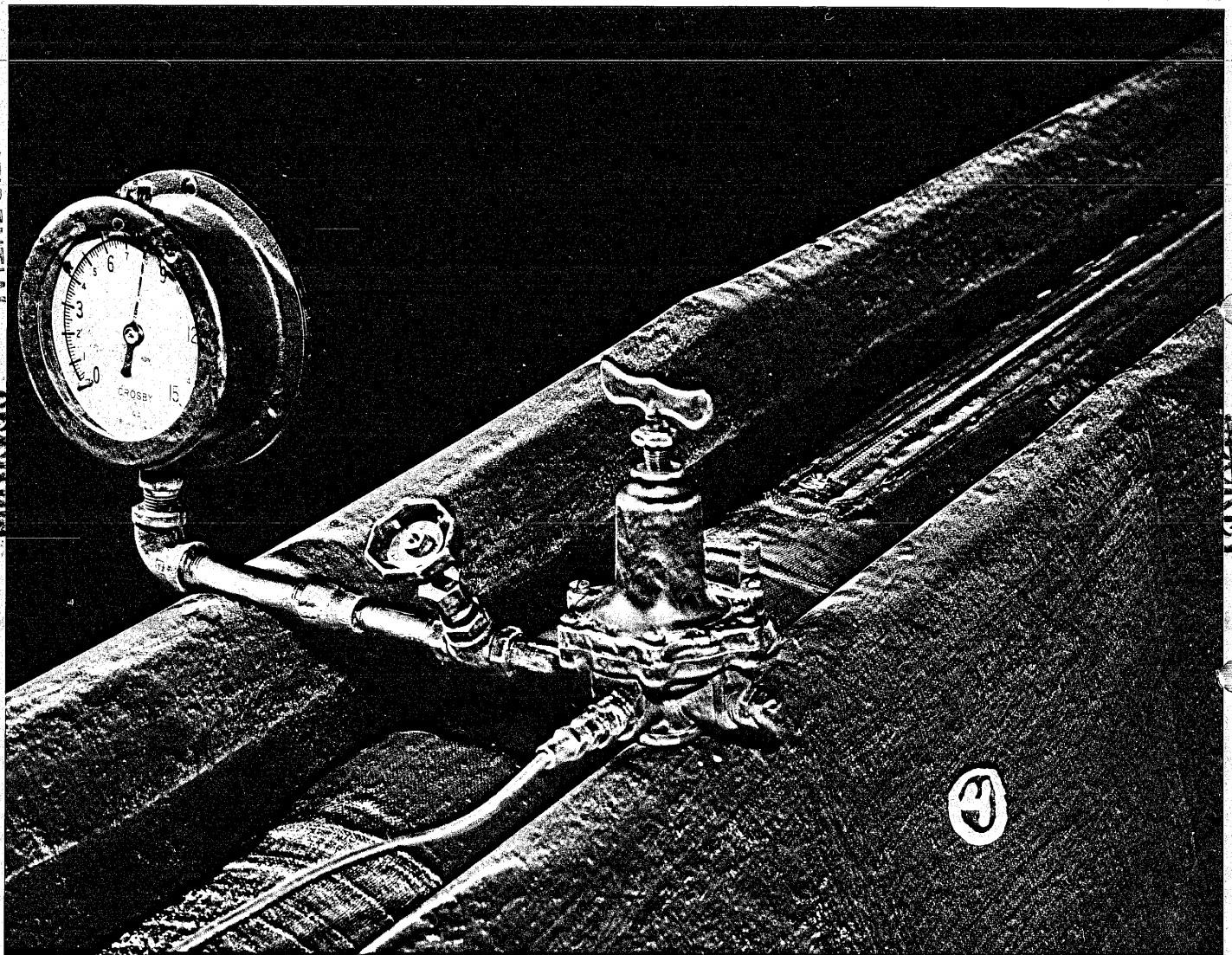
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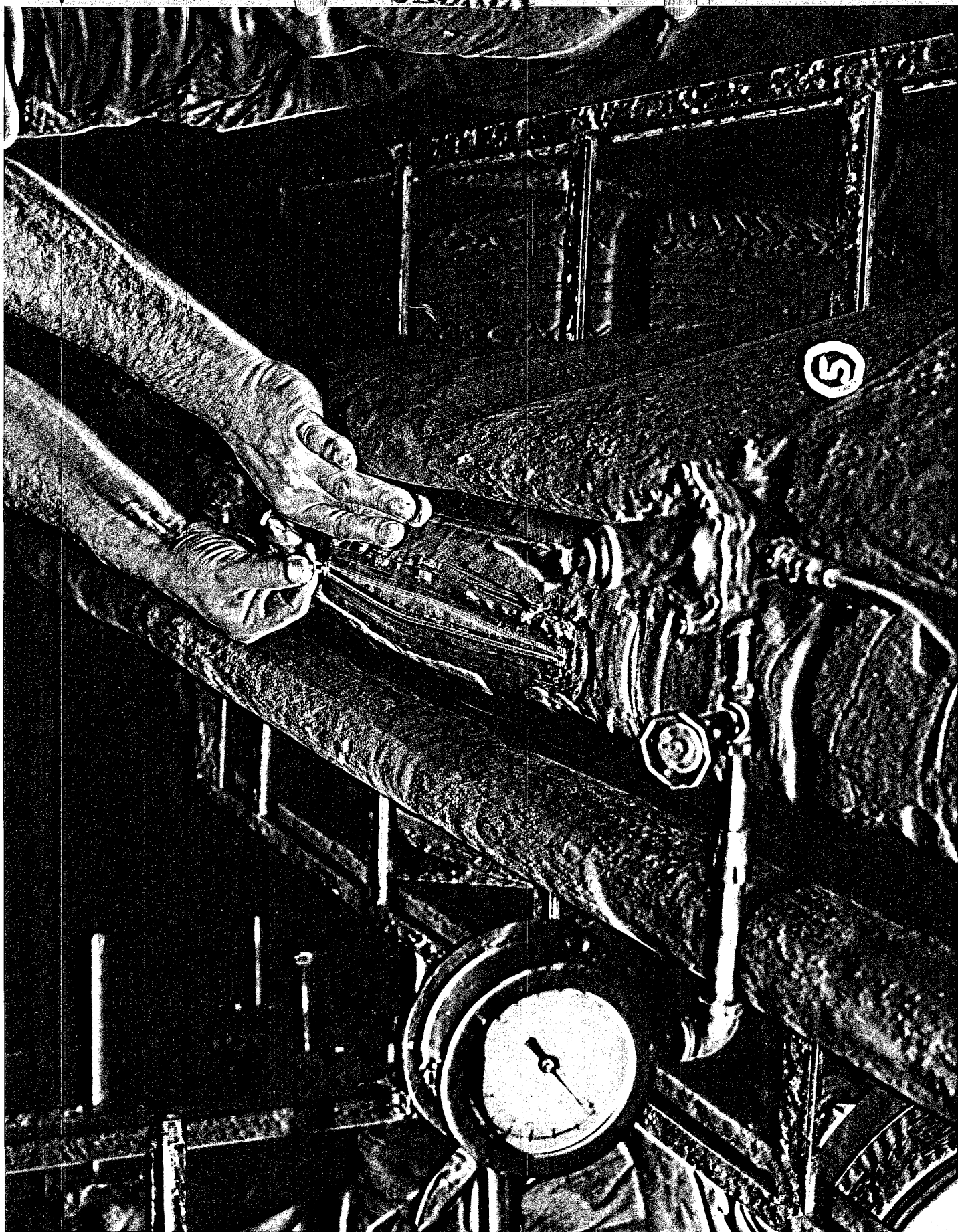
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General Tire Photo



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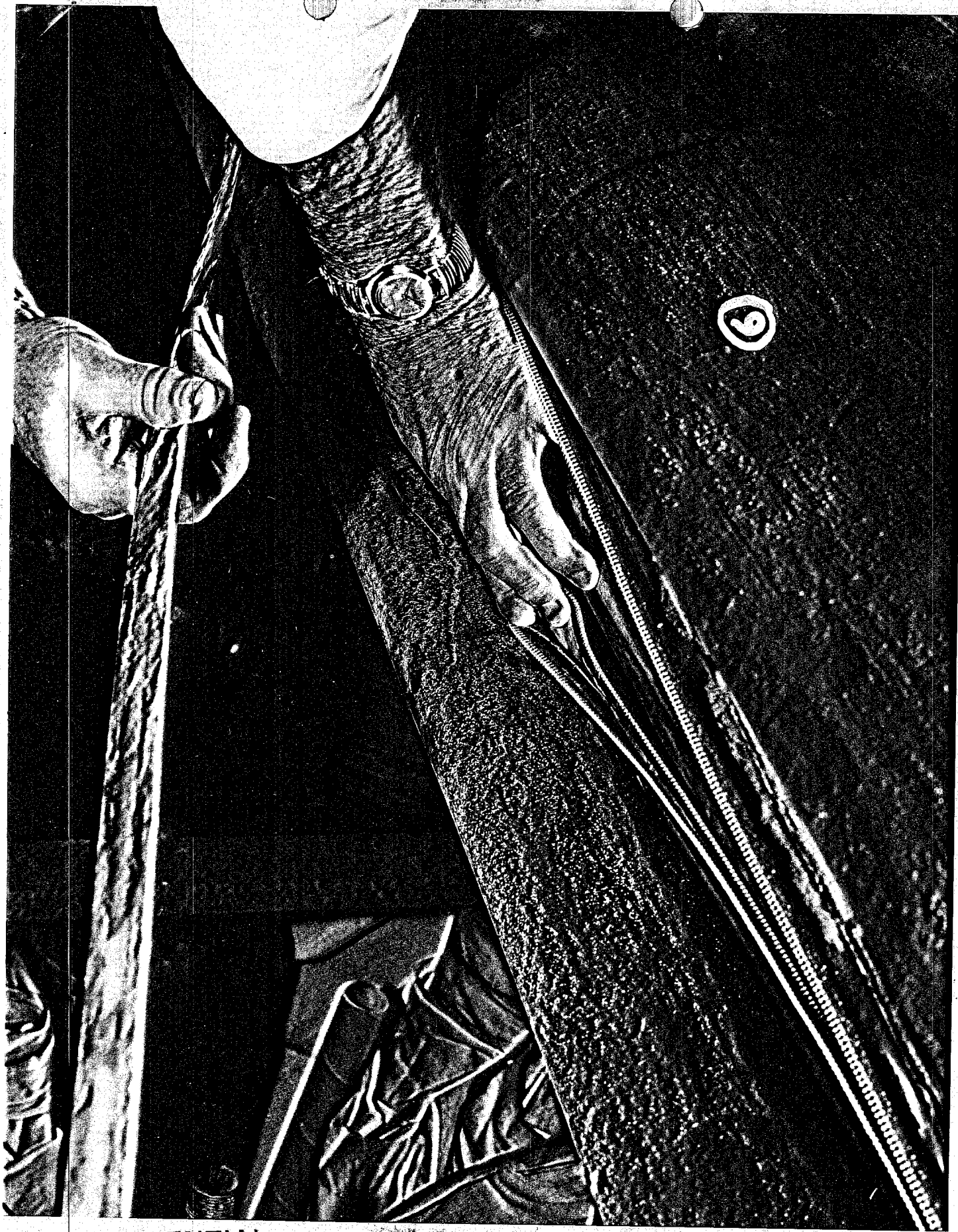
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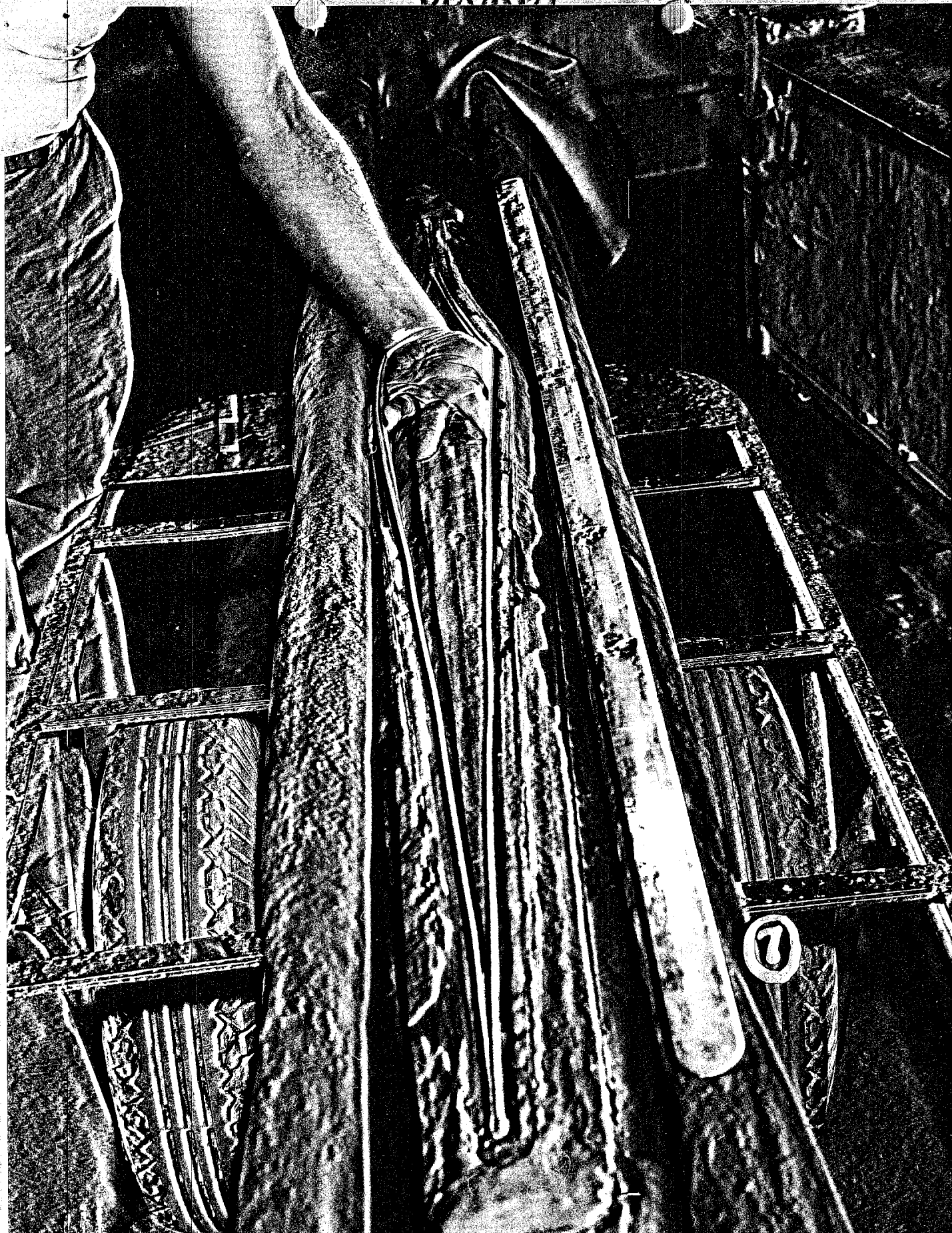
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